

Modem	Same as	Remarks	Modem File	Src*
<b>HF decoders</b>				
2 channel ITA-2 RTTY	F7B Morse/Baudot			X
ACARS HF	HFDL			X
Alcatel 801H		detection only	alcatel_801h	X
ALE 2G			ale-2g	X
ALE-400			ale-400	X
ALIS			alis	X
ALIS 2		detection only	alis2	X
AMOR	CIS-14			X
AMOR 96	CIS-14			X
AMTOR	SITOR-A			X
Annex-10	SELCAL ICAO			X
ARQ-1000 duplex	ARQ-E/ARQ-N			X
ARQ-28	ARQ-M2 242/ARQ-M4 242			X
ARQ-58	ARQ-M2 342/ARQ-M4 342			X
ARQ6-90			arq_6-90	X
ARQ6-98			arq_6-98	X
ARQ-E Cyc4			arq_e_cyc4_85bd_170hz	X
ARQ-E Cyc8 185Bd 370Hz			arq_e_cyc8_185bd_370hz	X
ARQ-E Cyc8 96Bd 192Hz			arq_e_cyc8_96bd_192hz	X
ARQ-E3 50Bd 400Hz			arq_e3_50bd_400hz	X
ARQ-E3 100Bd 400Hz			arq_e3_100bd_400hz	X
ARQ-E3 48Bd 170Hz			arq_e3_cyc8_48bd_170hz	X
ARQ-E3 48Bd 270Hz			arq_e3_cyc8_48bd_270hz	X
ARQ-E3 48Bd 300Hz			arq_e3_cyc8_48bd_300hz	X
ARQ-E3 48Bd 400Hz			arq_e3_cyc8_48bd_400hz	X
ARQ-E3 48Bd 850Hz			arq_e3_cyc8_48bd_850hz	X
ARQ-E3 72Bd 400Hz			arq_e3_cyc8_72bd_400hz	X
ARQ-E3 96Bd 170Hz			arq_e3_cyc8_96bd_170hz	X
ARQ-E3 100Bd 850Hz			arq_e3_cyc8_100bd_850hz	X
ARQ-E3 192Bd 400Hz			arq_e3_cyc8_192bd_400hz	X
ARQ-E3 200Bd 400Hz			arq_e3_cyc8_200bd_400hz	X
ARQ-E3 288Bd 400Hz			arq_e3_cyc8_288bd_400hz	X
ARQ-E3 288Bd 850Hz			arq_e3_cyc8_288bd_850hz	X
ARQ-M1	ARQ-E3			X
ARQ-M2-242			arq_m2_242_96bd_430hz	X

Modem	Same as	Remarks	Modem File	Src*
ARQ-M2-342 96Bd 400Hz			arq_m2_342_96bd_400hz	X
ARQ-M2-342 200Bd 410Hz			arq_m2_342_200bd_410hz	X
ARQ-M4-242			arq_m4_242_192bd_173hz	X
ARQ-M4-342			arq_m4_342_192bd_400hz	X
ARQ-N			arq_n	X
ARQ-S	SI-ARQ			X
ARQ-SWE	SWED-ARQ			X
ARTRAC	DUP-ARQ			X
ASCII 7Bit 100Bd 173Hz			ascii_7bit_100bd_173hz	X
ASCII 7Bit 75Bd 850Hz			ascii_7bit_75bd_850hz	X
ASCII 7Bit 110Bd 170Hz			ascii_7bit_110bd_170hz	X
ASCII 7Bit 171Bd 420Hz			ascii_7bit_171bd_420hz	X
ASCII 7Bit 180Bd 500Hz			ascii_7bit_180bd_500hz	X
ASCII 7Bit 200Bd 300Hz			ascii_7bit_200bd_300hz	X
ASCII 7Bit 200Bd 400Hz			ascii_7bit_200bd_400hz	X
ASCII 7Bit 300Bd 170Hz			ascii_7bit_300bd_170hz	X
ASCII 7Bit 300Bd 400Hz			ascii_7bit_300bd_400hz	X
ASCII 7Bit 600Bd 480Hz			ascii_7bit_600bd_480hz	X
ASCII 8Bit			ascii_8bit_180bd_500hz	X
AUTOSPEC			autospec	X
Baudot sync 200Bd 850Hz			baudot_sync_200bd_850hz	X
Baudot sync 2 stopbit 50Bd 450Hz			baudot_2stopbit_50bd_450hz	X
Baudot sync 2 stopbit 75Bd 500Hz			baudot_2stopbit_75bd_500hz	X
Baudot async 1,5 Stopbit 50Bd 450Hz			baudot_async_50bd_450hz	X
Baudot async 1,5 Stopbit 50Bd 170Hz			baudot_async_50bd_170hz	X
Baudot async 1,5 Stopbit 50Bd 200Hz			baudot_async_50bd_200hz	X
Baudot async 1,5 Stopbit 50Bd 850Hz			baudot_async_50bd_850hz	X
Baudot async 1,5 Stopbit 75Bd 340Hz			baudot_async_75bd_340hz	X
Baudot async 1,5 Stopbit 75Bd 400Hz			baudot_async_75bd_400hz	X
Baudot async 1,5 Stopbit 75Bd 500Hz			baudot_async_75bd_500hz	X
Baudot async 1,5 Stopbit 100Bd 200Hz			baudot_async_100bd_200hz	X
Baudot async 1,5 Stopbit 100Bd 400Hz			baudot_async_100bd_400hz	X
Baudot async 1,5 Stopbit 100Bd 850Hz			baudot_async_100bd_850hz	X
Baudot async 1,5 Stopbit 150Bd 500Hz			baudot_async_150bd_500hz	X
Baudot async 1,5 Stopbit 180Bd 500Hz			baudot_async_180bd_500hz	X
Baudot universal 50Bd 650Hz			baudot_universal_50bd_650hz	X

Modem	Same as	Remarks	Modem File	Src*
Baudot universal 75Bd 850Hz			baudot_universal_75bd_850hz	X
Baudot F7B	F7B Morse/Baudot			X
BEE	CIS-36-50			X
BF6 Baudot	F7B Morse/Baudot			X
BULG-ASCII 75Bd 510Hz			bulg-ascii_75bd_510hz	X
BULG-ASCII 120Bd 500Hz			bulg-ascii_120bd_500hz	X
BULG-ASCII 150Bd 500Hz			bulg-ascii_150bd_500hz	X
BULG-ASCII 180Bd 500Hz			bulg-ascii_180bd_500hz	X
BULG-ASCII 300Bd 500Hz			bulg-ascii_300bd_500hz	X
CCIR 242	ARQ-M2 242/ARQ-M4 242			X
CCIR 342	ARQ-M2 242			X
CCIR 342-2	ARQ-M4 242			X
CCIR 476 A/B	Sitor A/Sitor B			X
CCIR 493-4	CODAN Selcal			-
CCIR 518 Variant	SWED-ARQ/ARQ6-90/ARQ6-98/POL-ARQ			X
CCIR 519 Variant	ARQ-E3			X
CHU			chu_fsk	X
CIS 10 11 11	CIS 36			X
CIS-11			cis-11	X
CIS-12 PSK2			cis-12_psk2	X
CIS-12 PSK4			cis-12_psk4	X
CIS-14			cis-14	X
CIS-20	CIS-12			X
CIS-36			cis-36	X
CIS-36-50 50Bd 250Hz			cis-36_50_50bd_250hz	X
CIS-36-50 50Bd 500Hz			cis-36_50_50bd_500hz	X
CIS-50-50 50Bd 200Hz			cis-50_50_50bd_200hz	X
CIS 40.5	CIS 405 3915			X
CIS 405 3915			cis_405_3915	X
CIS 81	CIS 81-81			X
CIS 81-29	CIS 81-81			X
CIS-81-81			cis-81-81_81bd_500hz	X
CIS AT3104	CIS-12			X
CIS FSK 200/500			cis-fsk-200-500	X
Clansman FSK 300Bd			clansman_300bd	X
Clover II			clover_II	-

Modem	Same as	Remarks	Modem File	Src*
Clover 2000			clover_2000	-
Clover 2000 Broadcast			clover_2000broadcast	-
Clover 2500			clover_2500	-
Clover 2500 Broadcast			clover_2500broadcast	-
CODAN 3012 Chirp			codanchirp	-
CODAN Selcal			codan_selcall	-
CODAN 3012 16 Channel PSK		raw hex output descrambled		-
CODAN 3212 16 Channel PSK		Includes CODAN 3012	codan3212_16channel_psk	-
CODAN 3212 1 Channel PSK		only 600 and 1200bps fully supported	codan3212_1channel_psk	-
CODAN 8580	CODAN Selcal			-
CODAN 9001 Chirp	CODAN 3012 Chirp			-
Contestia 8/250			contestia-8-250	X
Contestia 16/500			contestia-16-500	X
Contestia 32/1000			contestia-32-1000	X
CROWD-36	CIS-36			X
Coquelet-13 75ms			coquelet-13_75ms	X
Coquelet-13 50ms			coquelet-13_50ms	X
Coquelet-8			coquelet-8	X
Coquelet-8 FEC	Coquelet-80			X
Coquelet-80			coquelet-80	X
Coquelet-100	Alcatel 801H			X
Coquelet-Mk1	Coquelet-13			X
Coquelet-Mk2	Coquelet-8			X
CW-Morse	Morse			X
DGPS 200Bd			dgps_200bd_msk	X
DGPS 100Bd			dgps_100bd_msk	X
DSC-HF 170Hz			dsc-hf-170hz	X
DSC-HF 500Hz			dsc-hf-500hz	X
DUP-ARQ 125Bd 170Hz			dup-arq_125bd_170hz	X
DUP-ARQ 125Bd 850Hz			dup-arq_125bd_850hz	X
F7B Morse/Baudot			f7b_baudot_morse	X
F7B Morse			f7b_morse	X
FEC-A 145Bd 850Hz			fec-a_145bd_850hz	X
FEC-A 96Bd 85Hz			fec-a_96bd_85hz	X
FEC-A 96Bd 200Hz			fec-a_96bd_200hz	X
FEC-A 96Bd 400Hz			fec-a_96bd_400hz	X

Modem	Same as	Remarks	Modem File	Src*
FEC-A 192Bd 400Hz			fec-a_192bd_400hz	X
FEC-A 192Bd 850Hz			fec-a_192bd_850hz	X
FEC-S	SI-FEC			X
FEC12	Visel			X
FEC 100	FEC-A			X
FEC 101	FEC-A			X
FIRE	CIS-12			X
Frost	CIS 81-81			X
FROST1	CIS 405 3915			X
FSK 400/500		detection only	fsk_400_500	X
Globe Wireless FSK 100Bd			gw_fsk_100bd_200hz	X
Globe Wireless FSK 200Bd			gw_fsk_200bd_200hz	X
Globe Wireless PSK			gw_psk_200bd_psk4	X
Globe Wireless OFDM		detection only	gw_ofdm	-
Globe Wireless Pactor	Globe Wireless FSK/PSK			X
GMDSS	DSC-HF			X
G-TOR 300Bd 180Hz			g-tor_300bd_180hz	X
G-TOR 100Bd 200Hz			g-tor_100bd_200hz	X
G-TOR 200Bd 200Hz			g-tor_200bd_200hz	X
Golay	G-TOR			X
GW DATAPLEX	Globe Wireless FSK/PSK			X
HFDL			hfdl	X
HNG-FEC			hng_fec	X
IRA-ARQ	BULG-ASCII			X
ITA-2 Twin	F7B Morse/Baudot			X
MD-674			md-674	-
MERLIN	ALIS			X
MEROD			merod	X
MFSK-8			mfsk-8	X
MFSK-16			mfsk-16	X
MIL-188-141A	ALE 2G			X
MIL-188-141B	ALE 2G			X
Morse 30-60			morse_30_60	X
Morse 60-125			morse_60_125	X
MS5	CIS-12			X
MT63-500			mt63-500	X

Modem	Same as	Remarks	Modem File	Src*
MT63-1000			mt63-1000	X
MT63-2000			mt63-2000	X
NUM 13	SP 14			X
Olivia 8/250			olivia-8-250	X
Olivia 16/500			olivia-16-500	X
Olivia 32/1000			olivia-32-1000	X
Packet 300			packet-300	X
PACTOR I			pactor_i	X
PACTOR I FEC			pactor_i_fec	X
PACTOR II			pactor_ii	-
PACTOR II FEC			pactor_ii_fec	-
PACTOR III			pactor_iii	-
PACTOR I/II/III		Includes all PACTOR modes I/II/III	pactor	-
PACTOR-4		detection only	pactor-4_det	-
Piccolo MK6			piccolo_mk6	X
Piccolo MK12			piccolo_mk12	X
Piccolo 6	Piccolo MK6			X
Pol-ARQ			pol-arq_100bd	X
Piccolo 12	Piccolo MK12			X
PSK10			psk10	X
PSK-AM 10Bd			psk-am_10bd	X
PSK31			psk31	X
PSK-AM 31Bd			psk-am_31bd	X
PSK31-FEC			psk31fec	X
PSK-AM 50Bd			psk-am_50bd	X
PSK63		variant of PSK31 with higher baud rate	psk63-psk2	X
PSK63-FEC		variant of PSK31 with FEC	psk63_fec	X
PSK125		variant of PSK31 with higher baud rate	psk125_psk2	X
PSK125-FEC		variant of PSK31 with FEC	psk125_fec	X
PSK250		variant of PSK31 with higher baud rate	psk250	X
PSK220-FEC		variant of PSK31 with FEC	psk220_fec	X
QPSK31			qpsk31	X
QPSK63		variant of QPSK31 with higher baud rate	qpsk63	X
QPSK125		variant of QPSK31 with higher baud rate	qpsk125	X
QPSK250		variant of QPSK31 with higher baud rate	qpsk250	X
QPSK500		variant of QPSK31 with higher baud rate	qpsk500	X

Modem	Same as	Remarks	Modem File	Src*
RAC-ARQ	MEROD			X
RACAL-ARQ	MEROD			X
ROU-FEC	RUM-FEC			X
RS-ARQ	ALIS			X
RUM-FEC			rum-fec_165bd	X
SI-ARQ			si-arq	X
SI-FEC			si-fec	X
SITOR-A 170Hz			sitor-a_170hz	X
SITOR-A 1300Hz			sitor-a_1300hz	X
SITOR ARQ	SITOR-A			X
SITOR-B 100Bd 170Hz			sitor-b_100bd_170hz	X
SITOR-B 100Bd 400Hz			sitor-b_100bd_400hz	X
SITOR FEC	SITOR-B			X
SP14			sp14	X
SPREAD 11	Autospec			X
SPREAD 21	Autospec			X
SPREAD 51			spread51	X
Saud-FEC	RUM-FEC			X
SWED-ARQ			swed_arq	X
T-600	CIS-36-50			X
TDM 242	ARQ-M2 242/ARQ-M4 242			X
TDM 342	ARQ-M2 342/ARQ-M4 342			X
TDM 342 1 Channel	ARQ-E3			X
THROB1			throb1	X
THROB2			throb2	X
THROB4			throb4	X
THROBX1			throbx1	X
THROBX2			throbx2	X
THROBX4			throbx4	X
TOR dirty	Sitor B			X
TORG 10/11	CIS-11			X
TORG 14	CIS-14			X
Twinplex			twinplex	X
Visel			visel	X
Voice J3E-LSB			voice_j3e_lsb	X
Voice J3E-USB - SELCAL ICAO		for voice J3E-USB and/or ICAO selcal	voice_j3e_selcal_icao	X

Modem	Same as	Remarks	Modem File	Src*
Voice A3E/J3E			voice_a3e_j3e	X
YUG-MIL	Visel			X
X06 - Mazielka			x06	X



Modem	Same as	Remarks	Modem File	Src*
<b>VHF/UHF decoders</b>				
ACARS VHF			acars_vhf	X
AIS			ais	X
ATIS			atis	X
Autocab			autocab	X
BIIS			biis	X
CityRuf	POCSAG			X
DSC-VHF			dsc-vhf	X
ERMES			ermes	X
Flex			flex	X
Flex 1600Bd PSK2		for baseband demodulation	flex_1600bd_psk2	X
FMS-BOS			fms_bos	X
GMDSS-VHF	DSC-VHF			X
Golay/GSC	Golay Pager			X
Golay Pager			golay_pager	X
Mobitex 1200			mobitex-1200	X
Mobitex 80	Mobitex 1200			X
Mobitex 8000			mobitex-8000	X
Mobitex 400	Mobitex 8000			X
MPT1306	SELCAL CTCSS			X
MPT1316	SELCAL EEA			X
NMT450			nmt450	X
Packet 600			packet-600	X
Packet 1200			packet-1200	X
Packet 2400			packet-2400	X
Packet 4800			packet-4800	X
Packet 9600			packet-9600	X
POCSAG 1200Bd			pocsag_1200bd	X
POCSAG 512Bd			pocsag-512bd	X
POCSAG 2400Bd			pocsag-2400bd	X
SELCAL CCITT		only for nominal frequency mode	ccitt	X
SELCAL CCIR-1		only for nominal frequency mode	ccir	X
SELCAL CCIR-2		only for nominal frequency mode	ccir-2	X
SELCAL CCIR-7	SELCAL CCIR-2	only for nominal frequency mode		X
Voice A3E			voice_a3e	X
Voice A3E Air Traffic		to monitor voice air traffic	voice_a3e_air_traffic	X

Modem	Same as	Remarks	Modem File	Src*
Voice F3E - SELCAL CTCSS		for voice F3E and/or CTCSS	ctcss	X
SELCAL DTMF	included in Voice F3E - SELCAL DTMF			X
Voice F3E - SELCAL DTMF		for voice F3E and/or DTMF	voice_f3e_dtmf	X
SELCAL DTMF sub		for baseband demodulation	dtmf_sub	X
SELCAL DZVEI	included in SELCAL ZVEI	only for nominal frequency mode		X
SELCAL EEA		only for nominal frequency mode	eea	X
SELCAL EIA		only for nominal frequency mode	eia	X
SELCAL EURO		only for nominal frequency mode	euro	X
SELCAL EURO5	SELCAL EURO	only for nominal frequency mode		X
SELCAL MODAT		only for nominal frequency mode	modat	X
SELCAL NATEL		only for nominal frequency mode	natel	X
SELCAL PCCIR	SELCAL CCIR-1			X
SELCAL PDZVEI	included in SELCAL ZVEI			X
SELCAL PZVEI	included in SELCAL ZVEI			X
SELCAL VDEW		only for nominal frequency mode	vdew	X
SELCAL ZVEI			zvei	X
SELCAL ZVEI-1	included in SELCAL ZVEI			X
SELCAL ZVEI-2	included in SELCAL ZVEI			X
SELCAL ZVEI-3	included in SELCAL ZVEI			X
Tetrapol		detection only	tetrapol	-
VDL 2			vdl2	X
VDL 3			vdl3	X
IDAS	NXDN	Icom's version of NXDN		-
MotoTRBO	DMR	Motorola's version of DMR		-
NEXEDGE	NXDN	Kenwood's version of NXDN		-
P-25	APCO-25			-

Only one decoder will be delivered for modems with several (alias) names.

white line = primary modem name

grey line = alias name

Src\* = availability of decoder source code depends on product

Modem	Same as	Remarks	Modem File	Src*
<b>Military package (optional)</b>				
ALE 3G			ale-3g	-
CHN 4+4		for signals with normal polarity (USB)	chn4plus4	-
CHN 4+4 (INV)		for signals with inverted polarity (LSB)	chn4plus4_inv	-
CV-786			cv-786	-
Haegelin-Cryptos	HC-ARQ			X
HC-ARQ			hc-arq	X
LINK-11 CLEW			link-11_clew	X
LINK-11 SLEW	STANAG 5511 SLEW		link-11_slew	-
MD-522	MIL-M-55529A			-
MIL-188-110A ser.	partly included in STANAG 4539/4415			-
MIL-188-110A App. C	STANAG 4539			-
MIL-188-110B ser.	partly included in STANAG 4539/4415			-
MIL-188-110B App.C	partly included in STANAG 4539 HDR			-
MIL-188-110 16 Tone		only raw output	mil188-110_16tone	-
MIL-188-110 39 Tone			mil188-110_39tone	-
MIL-188-141B App. C	ALE 3G			-
MIL-M-55529A			mil-m-55529a	-
Panther-H Sync		detection of synchronisation bursts only	panther-h_sync	-
STANAG 4197		audio codec not part of installation	stanag4197	-
STANAG 4285		Terminal Mode: ASCII8 & Baudot	stanag4285	-
STANAG 4415		75bps (also Part of Mil188-110A/B)	stanag4415	-
STANAG 4481 (FSK)			stanag4481_fsk	-
STANAG 4481 (PSK)			stanag4481_psk	-
STANAG 4529		Terminal Mode: ASCII8 & Baudot	stanag4529	-
STANAG 4538	ALE 3G			-
STANAG 4539		150-4800 Bit/s	stanag4539	-
STANAG 4539 HDR		3200 - 4800 Bit/s	stanag4539-hdr	-
STANAG 5065		(also Part of Mil188-110A/B)	stanag_5065_fsk	-
STANAG 5066	included in STANAG 4285	STANAG4285 with protocol 5066		-
STANAG 5511	LINK-11 CLEW			X
STANAG 5511 SLEW	LINK-11 SLEW			-
TADIL A	LINK-11 CLEW			X
TADIL B	LINK-11 CLEW			X
Thales System 3000 Skymaster SelCal		detection only	sys3000selcall	-

Only one decoder will be delivered for modems with several (alias) names.

white line = primary modem name

grey line = alias name

Src\* = availability of decoder source code depends on product

**Export conditions for Military Decoder Package:**

In case of an export from the Federal Republic of Germany an export permission must be granted by the German authorities. Enduser certificate is required.

Modem	Same as	Remarks	Modem File	Src*
<b>PMR (Professional Mobile Radio) package (optional)</b>				
APCO-25			apco-25	-
DMR		for burst emissions	dmr	-
DMR Continuous		for continuous emissions	dmr_continuous	-
dPMR			dpmr	-
D-STAR			d-star	-
MPT1327 1200Bd MSK			mpt1327_1200bd_msk	X
NXDN 2400Bd			nxdn_2400bd	-
NXDN 4800Bd			nxdn_4800bd	-
Tetra			tetra	-
Tetra DMO			tetra_dmo	-
Tetra Uplink			tetra_uplink	-

Only one decoder will be delivered for modems with several (alias) names.  
 white line = primary modem name  
 grey line = alias name  
 Src\* = availability of decoder source code depends on product

**Export conditions for PMR Decoder Package:**

In case of an export from the European Union an export permission must be granted by the German authorities. Enduser certificate is required.